5.1 Channel USB headset

USB 5.1 surround headset

USB 5.1 surround
headset

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USB 5.1 surround
headset

AP-5.1 User manual

Introduction

Thank you for buying the Gembird® USB 5.1 surround headset! This manual will help you install and use it properly.
The AP-5.1 is a 5.1 channel, high sound quality headset with microphone and USB interface with the following main features:

- 5.1 channel
- High sound quality
- Adjustable microphone
- Volume control
- Plug and play
- Soft leather ear pads

Package contents

Please check the following package contents of your USB 5.1 surround headset:

- 1 x Headset with microphone
- 1 x CD with software
- 2 x User manual

Software requirements

- Windows 98SE, ME, 2000, or XP
- Direct 3D

Hardware requirements

- USB 1.1 and 2.0
- Intel Pentium III, AMD K6 500 CPU or above
- At least 64 MB RAM (Win98SE) or 128MB RAM (WinME, Win2000 and WinXP)
- At least 50 MB hard disk space

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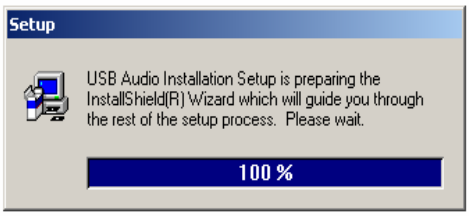
Important

Before installing Xear 3D audio, plug in the USB 5.1 Headset first. Always use the same USB PC connector for the USB 5.1 Headset to automatically start the Xear 3D software when the headset is plugged in.

Software installation

1. Turn on the PC system and connect the USB 5.1 Headset to a USB connector.

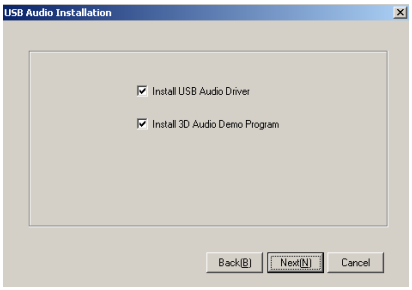
2. Insert the installation CD into your CD drive. If auto run is activated, the setup program will start up automatically. Otherwise, start the setup program "**setup.exe**" from the CD drive by hand.


Setup
USB Audio Installation Setup is preparing the InstallShield(R) Wizard which will guide you through the rest of the setup process. Please wait.
100 %

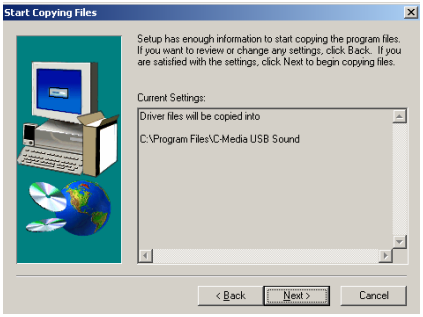
If this message appears, please Plug-In the USB 5.1 first, wait a few seconds until the headset is recognized, and continue the installation by clicking "**OK**".

3. Click the "**Next**" button to continue the installation.

Select "**Install USB Audio Driver**" for installing the Xear 3D driver software. Selecting "**Install 3D Audio Program**" installs two simple, non-violent 3D sound demo applications, a helicopter game and a rock shooting game. They can be started from the "Start Menu" – "USB Audio". Click "**Next**" to continue



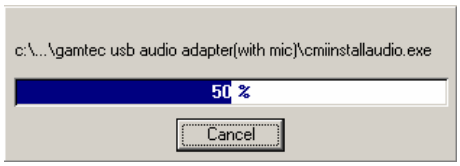
4. Set up will install the application into the default path and folder.


Start Copying Files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Driver files will be copied into
C:\Program Files\C-Media USB Sound
< Back
Next >
Cancel

5. If you run Windows XP, you may see the following dialog box, click "**Continue Anyway**" to continue the installation.

Hardware Installation
The software you are installing for this hardware:
C-Media USB Audio Device
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

6. The copy process may take a little while, wait until it finishes.



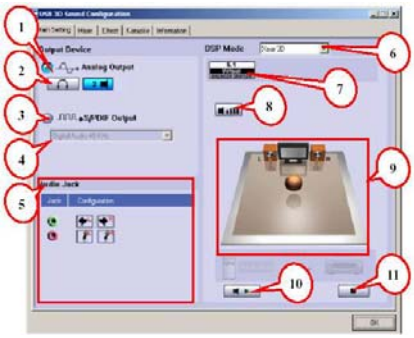
7. Reboot to complete the software installation, otherwise the driver will not be initialized.

8. After the reboot you will see a new blue icon in the Systray. Click on it to open the Xear 3D Sound driver application.

Note:For the driver to recognize the headset, it has to be plugged into the USB port from where it was originally installed. After unplugging the headset, make sure to connect it back into the same USB port, otherwise the Xear 3D sound icon will not show in the Systray. Should the Xear 3D icon ever be missing, the USB connector is most likely in the wrong connector.

User Interface and Functions

Main Settings



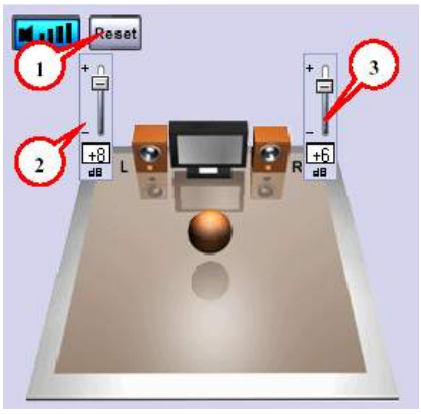
1: **Analog Output**: Click on this button for turning on analog output.
2: **Analog Output Channels**: Select Earphones.
3: **Digital Output**: Turns on SPDIF digital data output.
4: **Digital Output Mode**: Dolby RTCE or PCM (depending on configuration).
5: **Available Audio Jacks**: Does not apply to AP5.1
6: **DSP Mode**: Pull down to select Xear 3D DSP Mode or none to turn off DSP mode.
7: **Virtual Speaker Shifter**: Turns on/off Speaker Shifter controls (see details below).

8: **Digital Volume Control**: Allows adjusting each channel's volume (see details below).
9: **Speaker/Channel Display**: Shows analog output channels and allows direct speaker controls and shifting (see details below).
10: **Auto Sound Test**: Performs an auto test for each channel.
11: **Stop Auto Sound Test**: Stops auto testing.

Virtual Speaker Shifter

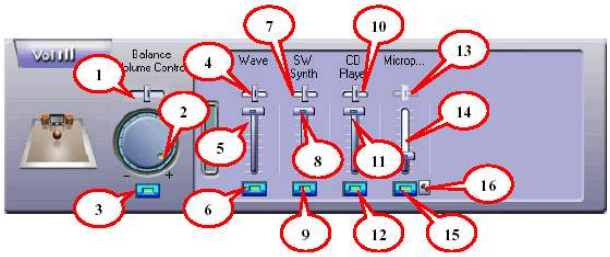
1: Total Volume Control Up
2: Total Volume Control Down
3: Rotate Speakers Clockwise
4: Rotate Speakers Counter Clockwise
5: Rotate Speakers Manually
6: Shift Speakers Manually
7: Reset to Standard Settings
8: Drag Area

Digital Volume Control (Speaker Shifter turned off)



1: Reset Volume
2: Left Channel Control
3: Right Channel Control

Mixer



1: Master Balance
2: Master Volume
3: Master Volume On/Off
4: Wave Balance
5: Wave Volume
6: Wave On/Off
7: SW Synth Balance
8: SW Synth Volume
9: SW Synth On/Off
10: CD Balance
11: CD Volume Control
12: CD On/Off
13: Microphone Balance
14: Microphone Volume
15: Microphone On/Off
16: Microphone Advanced

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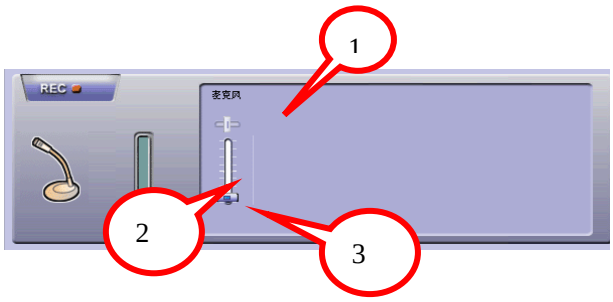
Settings

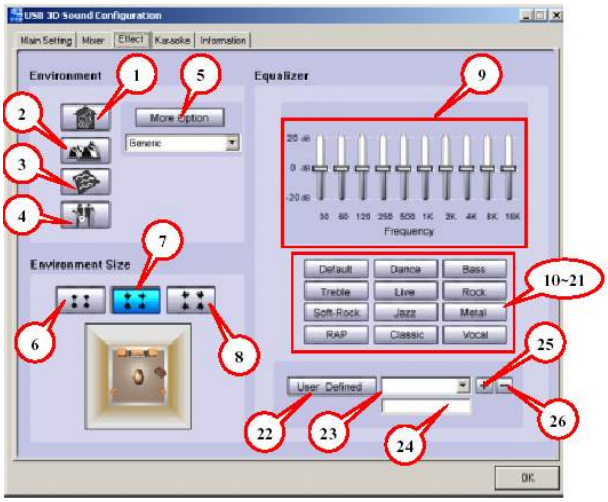


1: Microphone Record Balance

2: Microphone Record Volume

3: Microphone Record Volume On/Off

Effects


USB 3D Sound Configuration
Main Setting
Mixer
Effect
Karaoke
Information
Environment
Equalizer
More Option
Generic
Frequency
Environment Size
Default
Dance
Bass
Treble
Live
Rock
Soft-Rock
Jazz
Metal
RAP
Classic
Vocal
User Defined
OK
1
2
3
4
5
6
7
8
9
10~21
22
23
24
25
26

Environment Settings

1: Bathroom

2: Opera

3: Underwater

4: Music Pub

5: More options: 27 additional modes

Environment Size

6: Large

7: Middle

8: Small

Equalizer

9: Ten Band Equalizer Controls

10 - 21: Pre-Set Modes

22: Equalizer User Defined On/Off

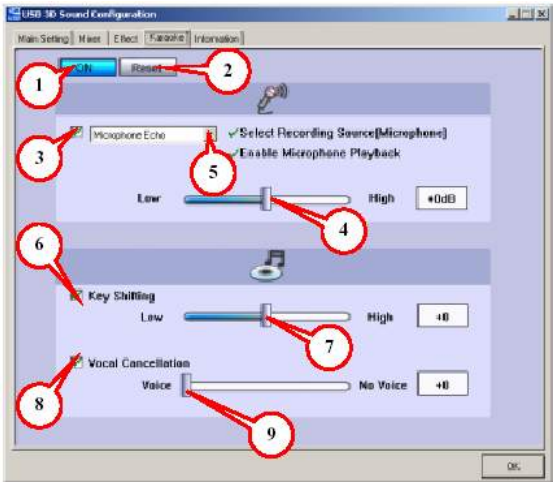
23: Select user define modes

24: User defined name input

25: Add new user defined mode

26: Delete user defined mode

Karaoke



1: Karaoke On/Off

Click this button to control all Karaoke functions.

2: Reset all Karaoke settings to their default values.

3: Enable microphone echo. A pop up box will appear, click the "OK" button to select recording source and enable microphone.

4: Echo adjust

5: Selected echo function.

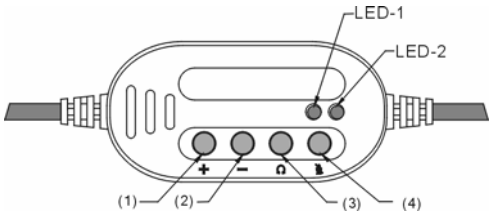
6: Enable Key Shifting Function.

7: Key Shifting Control for adjusting the background music.

8: Check box to enable the Vocal Cancellation function.

9: Vocal Cancellation control.

Cable - Audio Controller description



1: Volume Up

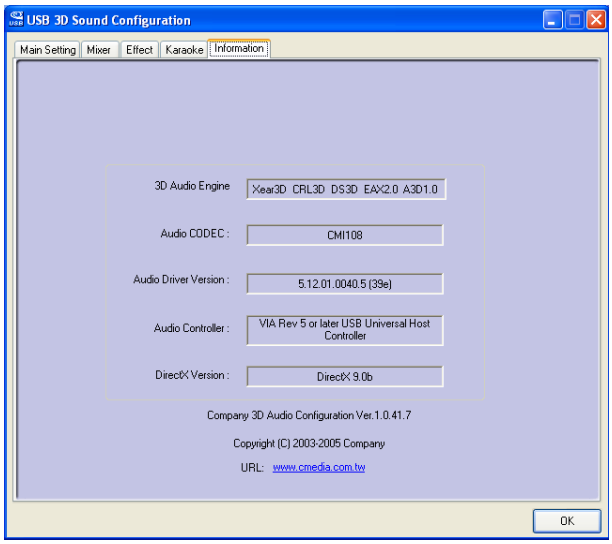
2: Volume Down

3: Headphones Off

4: Microphone Mute

LED-1: Headphones Indicator (flashes when active)

LED-2: Microphone Indicator (LED lights when microphone is muted)



This menu shows Xear 3D USB audio product and system information, it can be useful for trouble shooting or when you contact technical support.

Troubleshooting

Problem description	Proposed solution
Why is there no sound during the CD playback?	The CD audio is probably set to analog instead of digital audio. The USB audio signal is digital, therefore the input signal has to be digital as well. Open the "***Device Manager***", select "***DVD/CD ROM Drives***" and open it. Then open the "***Properties***" page and enable "***Digital CD Audio***".
Why is it that Win 98SE and Win ME sometimes cannot auto detect the USB audio device?	Win 98SE and Win ME have different driver architecture than Win 2000 and Win XP. When users plug in/out the USB audio device too fast, Win 98SE and ME may not detect the device change. In this case you will have to switch the audio device to "*USB audio device*" by yourself. Open the "***Control Panel***", select "***Sounds and***

	Audio Devices", choose "***Audio***" and set "***Default device***" to "***USB Device***" or "***Gamtec USB Device***".
Can I unplug the USB audio device while playing back audio files with a software application such as Windows Media player, Winamp, PowerDVD, WinDVD?	**No, stop playback first!** Otherwise your Computer may become unstable.

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Specification:

AP-5.1 USB Headset With 5.1 Channel Sound

Speakers Specification	
Driver Unit:	40 mm diameter
Impedance:	32Ω at 1K Hz
Frequency:	20Hz ~ 20KHz
Sensitivity:	105 ± 3dB
Max. Input:	200mW

Microphone Specification	
Directivity:	Omni-directional
Impedance:	2.2KΩ at 1K Hz
Frequency:	30Hz ~ 16KHz
Sensitivity:	-58 ± 2dB